82-339

ONTARIO HOUSING CORPORATION

FIRE STATISTICS FOR 1981

AND THE ROLE OF SMOKE DETECTORS

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ONTARIO HOUSING CORPORATION

FIRE STATISTICS FOR 1981

AND THE ROLE OF SMOKE DETECTORS

The Corporation owns about 85,000 dwelling units throughout the Province. The properties are managed by local Housing Authorities, and rented on a geared-to-income basis to families and senior citizens.

Previous reports dealt with the role of smoke detectors in fires from 1975 through 1980.

This report analyzes 138 fires which occurred in dwelling units during 1981.

Maintenance Engineering Branch

May, 1982

FIRE STATISTICS

ONTARIO HOUSING CORPORATION

1981

Number of fire incidents documented, where smoke detectors were involved: Total = 138.

Smoke Detector	# of Events	% of Total
Lives possibly saved	46	33
Property damage lessened	87	63
No effect	35	25
Defective or disconnected detector	16	(see note (1))

Occupancy

Family	111	80
Senior citizen	27	20

Fire Sequence

Occupant(s) sleeping	36	26
awake	76	55
not home	26	20

Origin of Fire

Kitchen	53	39
Bedroom	38	28
Living & Dining Rooms	21	15
Basement	18	13
Balcony	5	-
Vacant unit	1	-
Other	2	-

Cause of Fire	# of Events	% of Total
Stove-grease fire	31	23
Careless smoking	29	22
Children playing with matches	23	17
Appliances/wiring	21	15
Stove unattended	14	10
Open flame/spark	6	-
Arson or vandalism	6	-
Flammables	3	-
Unknown	5	-

Response to S.D. or to fire:

Occupant	93	67
Neighbour	39	28
Other person	5	-

Fire "discovered" by Smoke Detector:	87	63

Fatalities:

Men	0
Women	1

Property Damage (exclusive of furnishings)

Approximate Cost	$ 290,000

NOTE (1)

3 detectors were defective.

11 detectors had been disconnected.

2 detectors were inoperative - a local power failure, and a fire at the main fuse panel.

OBSERVATIONS:

These observations are made from fire incident reports. On receipt of a report, we often call back to verify events, especially the role of the detector. We assign a cause for all fires,not necessarily officially endorsed.

1) Fatalities

On New Year's Day, a 75 year old woman lost her life in her apartment.

During the year, we had no other fatalities from accidental fires. There were two other occasions when people died in fires, but these were probably deliberately set, and cannot be analyzed in the normal context of origin, cause, detection and control.

2) Grease fires

For the second year, this is our most common cause of fire. Most of these 31 fires were dangerous;- compounded by a tendency to prepare french fries late at night, and fall asleep in the process.

3) Smoking, drinking, and playing with fire

The first two are adult pursuits, and lethal when combined. Playing with matches or lighters is a second generation spin-off, obviously sparked by the presence of smoking materials. 39% of all our fires in 1981 came under these categories - about the same as previous years.

4) Appliances - Wiring

Electrically sponsored fires increased in 1981. There were (9) appliance related fires, and another (5) where the appliance was in contact with combustible materials, or overfusing removed the back-up protection. Two fires started in instant-on TV's ($30,000 damage) and three clothes dryers caught fire, but caused little damage.

Aluminum wiring caused (5) fires - about the same as last year.

4) Appliances - Wiring (cont'd.)

Meanwhile, down in the basement the gas flame punished five families who were careless with flammables or combustible things, and two furnaces caught fire.

5) Close the door!

Although not detailed in this report, investigation of fires over recent years revealed that 72 of 93 people left the door open behind them when getting away from a fire.

6) Smoke Detector for the deaf

The first experience in a real fire was only a qualified success. The bad news is that the strobe light did not awaken the resident. The good news is the alarm brought neighbour to help.

7) Six-year Summary

Since the end of 1977 every dwelling unit has been protected by at least one wired-in smoke detector. As noted last year, we are unable to prove a reduction in property damage, although it is logical to presume one. The other aspects of the role of smoke detectors are summarized for 600 fires analyzed since 1975.

Lives possibly saved in	- 33% of fires
No effect in	- 23% of fires
Defective detectors in	- 1.7% of fires
S.D. disconnected by tenant in	- 6% of fires
Occupants responded to alarm in	- 65% of fires
Neighbours responded in	- 26% of fires

There have been 22 fatalities in the 600 fires.

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FIRE INCIDENTS

METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

		SMOKE DETECTOR							OCCUPANCY		FIRE DETAILS				
Date	Place	May Have Saved Life	Saved Property	No Effect	Defective/Disconnected	Family	Seniors	Disability	Occupant "S","A","O"	Origin	Cause	Response By	$ Damage	Fatality	LEGEND
01/01	OH- 5, Mississauga		X				X		S	LR	C	N	500	1	Women fell asleep after smoking cigarette-S.D.sounded.
02/01	OH- 7, London	X	X				X		S	K	S	N	400		Tenant asleep-pot left on stove-neighbour heard S.D.
03/01	OH- 43, Toronto		X			X			S	BR	C	O	200		Smoking in bed - mattress fire re-ignited next day.
03/01	OH- 30, Ottawa	X	X			X			A	BR	V	N	800		Intoxicated,- set fire to mattress and blankets.
04/01	OH- 30, Hamilton			X		X			A	B	WA	O	480		Suspect aluminum wiring - shorted in fuse panel.
05/01	OH- 66, Toronto		X			X			A	BR	WA	O	3200		Portable electric heater ignited combustibles.
06/01	OH-101, Toronto		X				X		A	K	S	N	100		Occ. senile - minor stove fire - S.D. alerted neighbour.
07/01	OH- 16, Hamilton	X	X			X		X	A	BR	M	O	3200		Child playing with matches - left unattended.
08/01	OH- 9, London			X			X	X	A	K	S	O	635		Blind woman put smouldering oven mitt in drawer.
09/01	OH-101, Toronto			X		X			A	K	S	O	---		Pan of grease ignited - occ. discovered fire.
10/01	OH- 33, Hamilton	X	X			X			S	LR	C	N	6000		Tenant fell asleep while smoking cigarette-S.D. sounded.
12/01	FP-1 - Toronto			X		X			A	K	S	O	1100		Plastic tray in oven ignited. Occ. discovered fire.
16/01	OH- 63, Toronto			X		X			A	B	E	O	3490		Improperly stored flammable liquids and cleaning cloths.
17/01	OH- 43, Toronto		X			X			A	K	S	O	1000		Pot of wax left on burner - unattended.
18/01	OH- 50, Toronto				X	X			A	BR	WA	O	8200		Vapourizer overheated - circuit overfused-S.D.disconnected.

LEGEND

Occupant:- "S",sleeping; "A",awake; "O",out

Origin :- "K",kitchen; "BR",bedroom; "B",basement; "LR",living-room; "O",other; "V",vacant unit

Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other

Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	SMOKE DETECTOR: Saved Property	SMOKE DETECTOR: No Effect	SMOKE DETECTOR: Defective/Disconnected	SMOKE DETECTOR: Family	SMOKE DETECTOR: Seniors	SMOKE DETECTOR: Disability	OCCUPANCY: Occupant "S","A","O"	OCCUPANCY: Origin	FIRE DETAILS: Cause	FIRE DETAILS: Response By	FIRE DETAILS: $ Damage	FIRE DETAILS: Fatality	LEGEND
24/01	OH- 15,St.Catharines	X	X				X		A	LR	U	N	1000		Two persons treated for smoke inhalation.
25/01	OH- 44, Hamilton			X		X			A	BR	WA	O	--		Aluminum wired wall plug fire - occ. discovered.
31/01	OH- 18, Ottawa			X		X			A	O	C	O	300		Balcony - cigarette butt thrown from above.
01/02	OH-113, Toronto	X	X			X			A	BR	M	O	6500		Children playing with matches ignited mattress.
06/02	OH- 17, Ottawa			X		X			O	K	M	O	1000		Child playing with matches-ignited kitchen table-cloth.
07/02	OH- 7, Cornwall		X				X		O	K	S	N	400		Tenant out - pot on stove - neighbour heard S.D.
13/02	OH- 4, Cambridge		X			X			A	BR	C	O	400		Careless smoking - mattress ignited.
14/02	OH- 1, Cambridge	X	X			X			S	K	S	O	800		Started French fries - fell asleep - S.D. alerted occ.
16/02	OH- 15, Peterborough			X			X		A	K	S	O	--		Clothing caught fire - (2) injured.
16/02	OH- 44, Ottawa			X		X			O	B	U		7500		Basement fire - nobody home - no response to S.D.
16/02	FP5/54, Toronto			X		X			A	B	F	O	2700		Propane tanks by furnace exploded.
17/02	OH- 99, Toronto	X	X			X			S	K	S	O	275		Grease fire on kitchen stove - S.D. alerted tenant.
23/02	OH- 1, Owen Sound			X		X			A	B	F	O	700		Misuse of gasoline - cleaning motor-bike.
24/02	OH- 1, Trenton				X	X			O	BR	C	N	6000		Careless smoking - mattress burned - S.D. disconnected.
25/02	OH- 3, Belleville			X		X			A	K	S	O	250		Grease fire in kitchen - tenant on hand.

LEGEND

Occupant:- "S",sleeping; "A",awake; "O",out

Origin :- "K",kitchen; "BR",bedroom; "B",basement; "LR",living-room; "O",other; "V",vacant unit

Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other

Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	Saved Property	No Effect	Defective/Disconnected	Family	Seniors	Disability	OCCUPANCY: Occupant "S","A","O"	Origin	FIRE DETAILS: Cause	Response By	$ Damage	Fatality	LEGEND
01/03	OH- 33, Hamilton		X			X			O	V	F	N	1200		Gas leak (vacant unit), ignited by pilot light of furnace.
02/03	OH- 50, Toronto	X	X			X			A	BR	C	O	1300		Tenant fell asleep while smoking - S.D. sounded.
02/03	OH- 43, Toronto	X	X			X			A	K	S	O	700		Pot of oil left unattended on stove;S.D.alerted children.
02/03	OH- 32, Toronto	X	X			X			A	BR	M	N	2700		Child playing with matches - ignited mattress.
03/03	FP1/52, Sault Ste. Marie	X	X			X			S	BR	C	N	3000		Smoking in bed - neighbour heard S.D.(4) treated in hospital.
06/03	OH- 6, Iroquois Falls				X	X			A	K	S	O	600		Pan with grease left on stove element-S.D. disconnected.
08/03	OH-127, Toronto	X	X			X			S	K	C	O	60		Careless disposal of cigarettes in garbage container.
12/03	FP1/53, Toronto				X	X			A	LR	V	O	300		Cigarette ignited garbage in hallway-S.D. disconnected.
12/03	OH- 2, Ottawa			X		X			A	B	F	O	5000		Malfunction in gas furnace.
14/03	OH- 89, Toronto				X	X			A	BR	M	O	2600		Child playing with lighter - ignited mattress.
23/03	OH- 34, Toronto	X	X			X			S	BR	M	O	1400		Child playing with matches; S.D. woke mother.
25/03	OH- 3, Owen Sound	X	X			X			A	BR	M	O	85		Child playing with lighter; S.D. alerted visitor.
27/03	OH- 3, North Bay	X	X			X			A	LR	C	O	5000		Careless smoking - chesterfield ignited-S.D. alerted child.
27/03	FP 9, Toronto		X			X			A	K	S	O	1700		Grease fire - children cooking French fries.
28/03	OH- 45, Ottawa	X	X			X			A	LR	M	O	9000		Child left unattended - matches ignited mattress.

LEGEND

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Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other
Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	SMOKE DETECTOR: Saved Property	SMOKE DETECTOR: No Effect	SMOKE DETECTOR: Defective/Disconnected	OCCUPANCY: Family	OCCUPANCY: Seniors	OCCUPANCY: Disability	FIRE DETAILS: Occupant "S","A","O"	FIRE DETAILS: Origin	FIRE DETAILS: Cause	FIRE DETAILS: Response By	FIRE DETAILS: $ Damage	FIRE DETAILS: Fatality	LEGEND
02/04	OH- 07, Cambridge	X	X			X			A	B	M	O			Child in basement - ignited newspapers.
04/04	OH- 66, Toronto			X		X			A	O	V	OP	1000		Fire on balcony - cigarette dropped from above.
05/04	OH- 28, Kitchener	X	X				X		S	K	S	O	200		Grease fire on stove; S.D. woke tenant.
06/04	OH-134, Toronto		X			X			A	K	S	O	400		Grease fire on stove - S.D. alerted tenant.
09/04	OH- 58, Ottawa	X	X				X		S	LR	C	N	105		Fell asleep while smoking - S.D. brought neighbour.
10/04	OH-113, Toronto		X				X		O	K	S	N	750		Grease fire in kitchen - tenant out.
11/04	OH- 8, Pembroke				X	X			S	B	C	N	800		Visitor fell asleep while smoking - S.D. disconnected.
11/04	OH- 66, Toronto	X	X			X			S	BR	C	O	2000		Tenant fell asleep while smoking - S.D. alerted tenant.
16/04	OH-148, Toronto			X		X			A	K	S	O	1500		Grease fire - tenant in kitchen.
19/04	OH- 85, Toronto		X			X			O	LR	WA	N	30000		Faulty Instant-on Television.
20/04	OH-115, Toronto		X			X			O	K	S	N	85		Tenant out - pot of food on stove boiled dry.
22/04	OH-144, Toronto			X		X			A	BR	M	O	800		Child playing with matches - set fire to bedsheets.
25/04	OH- 19, London	X	X			X			S	K	C	O	10000		Careless disposal of cigarettes.
25/04	OH- 10, Hamilton		X				X		O	LR	C	N	100		Drinking and smoking - chesterfield ignited.
25/04	OH- 3, Geraldton	X	X				X		A	LR	C	N	250		Drinking and smoking - chair ignited.

LEGEND

Occupant:- "S",sleeping; "A",awake; "O",out
Origin :- "K",kitchen; "BR",bedroom; "B",basement; "LR",living-room; "O",other; "V",vacant unit
Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other
Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	Saved Property	No Effect	Defective/Disconnected	Family	Seniors	Disability	OCCUPANCY: Occupant "S","A","O"	Origin	FIRE DETAILS: Cause	Response By	$ Damage	Fatality	
25/04	FP1/51, Guelph			X		X			A	B	WA	O	300		Electrical malfunction in clothes dryer.
30/04	OH- 6, Kingston				X		X		S	BR	C	O	3000		Careless smoking - ignited mattress - S.D. disconnected.
01/05	OH- 23, Hamilton		X				X		A	K	F	O	300		Matches in drawer - spontaneous combustion.
02/05	OH- 1, Uxbridge				X		X	X	O	K	S	N	100		Blind tenant left oven mitt on stove; S.D. did not sound.
06/05	OH- 5, Guelph		X			X			A	LR	WA	O	--		Electrical malfunction in table lamp.
07/05	OH- 82, Toronto	X	X			X			S	K	S	O	--		Grease fire - S.D. alerted tenant.
08/05	OH- 34, Toronto		X			X			A	BR	M	O	200		Children unattended - lighter ignited drapes.
09/05	OH- 70, Toronto		X			X			O	BR	C	N	90		Bed clothes hanging in ash tray - ignited.
11/05	OH- 57, Ottawa		X				X		A	K	WA	O	350		Toaster left unattended - S.D. alerted tenant.
13/05	OH- 88, Toronto	X	X				X		A	BR	C	O	100		Careless smoking - mattress ignited - S.D. alerted tenant.
14/05	OH- 3, Ottawa		X				X		A	K	S	O	350		Grease fire - S.D. alerted tenant.
16/05	FP6/57, Hamilton		X			X			A	K	S	O	120		Grease fire on stove - S.D. alerted tenant.
19/05	OH- 2, Peterborough		X			X			A	K	S	O	--		Stove element melted handle of coffee pot.
19/05	OH- 14, Guelph			X		X			A	BR	M	O	200		Children playing with matches in closet.
21/05	OH- 33, Toronto			X		X			O	BR	WA	N	1500		Electrical appliance overheated - circuit overfused.

LEGEND

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Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other
Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

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METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	SMOKE DETECTOR: Saved Property	SMOKE DETECTOR: No Effect	SMOKE DETECTOR: Defective/Disconnected	OCCUPANCY: Family	OCCUPANCY: Seniors	OCCUPANCY: Disability	FIRE DETAILS: Occupant "S","A","O"	FIRE DETAILS: Origin	FIRE DETAILS: Cause	FIRE DETAILS: Response By	FIRE DETAILS: $ Damage	FIRE DETAILS: Fatality	LEGEND
26/05	OH- 26, Guelph			X		X			A	K	M	O	65		Children playing with matches - ignited dried flowers.
26/05	OH- 27, Toronto	X	X			X			A	K	S	N	180		Grease fire-children in bedroom asleep-SD.alerted neighbour.
27/05	OH- 1, Hamilton				X	X			S	LR	WA	O	-		Instant-On TV electrical malfunction-S.D. defective.
29/05	OH-101, Toronto	X	X			X		X	A	K	S	N	250		Grease fire - tenant intoxicated - S.D.alerted neighbour.
01/06	OH- 74, Toronto			X		X			A	O	C	O	700		Balcony - cigarette butt thrown from above.
02/06	OH- 1, Sutton				X		X	X	A	BR	WA	N	-		Table lamp ignited mattress - S.D. did not respond.
04/06	OH-114, Toronto		X			X			A	K	S	O	200		Grease fire on stove - S.D. alerted tenant.
04/06	OH- 28, London		X				X		O	K	S	N	7000		Grease fire on stove - S.D. alerted neighbour.
15/06	OH-115, Toronto		X			X			O	B	WA	O	350		Electrical malfunction in strobe light-stereo unit.
15/06	OH- 6, Ottawa		X			X			O	K	S	OP	1000		Grease fire on stove - S.D. alerted contractor.
18/06	OH- 61, Ottawa			X		X			A	B	WA	O	-		Electrical malfunction in clothes dryer.
19/06	OH- 45, Ottawa		X			X			O	K	U	N	8000		Possible cause - exploding aerosol can.
25/06	OH- 22, Ottawa		X			X			O	K	S	N	3000		Grease fire in kitchen - S.D. alerted neighbour.
05/07	FP1/53, Toronto	X	X			X			S	K	S	N	100		Grease fire - occupant asleep - S.D. alerted neighbour.
08/07	OH- 5, Waterloo	X	X			X			A	BR	M	O	200		Children and matches - S.D. alerted mother.

LEGEND

Occupant :- "S",sleeping; "A",awake; "O",out

Origin :- "K",kitchen; "BR",bedroom; "B",basement; "LR",living-room; "O",other; "V",vacant unit

Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other

Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

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METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	SMOKE DETECTOR: Saved Property	SMOKE DETECTOR: No Effect	SMOKE DETECTOR: Defective/Disconnected	OCCUPANCY: Family	OCCUPANCY: Seniors	OCCUPANCY: Disability	FIRE DETAILS: Occupant "S","A","O"	FIRE DETAILS: Origin	FIRE DETAILS: Cause	FIRE DETAILS: Response By	FIRE DETAILS: $ Damage	FIRE DETAILS: Fatality	LEGEND
13/07	OH- 1, Burlington		X			X			O	K	S	N	500		Grease fire in kitchen - S.D. alerted neighbour.
19/07	OH- 45, Ottawa	X	X			X			A	BR	M	O	125		Children playing with lighter - ignited mattress.
23/07	OH- 6, Sudbury			X			X		A	LR	WA	O	180		Aluminum wiring in duplex receptacle.
24/07	OH- 1, Blyth		X				X		O	K	S	N	120		Storing plastic bowls in oven - element on.
01/08	OH- 2, Sudbury		X			X			O	BR	C	N	5000		Cigarette was not properly extinguished - ignited mattress.
04/08	OH- 1, Oshawa	X	X			X			A	K	S	O	1200		Grease fire - tenant asleep - S.D. alerted tenant.
05/08	FP4/57, London		X			X			A	K	S	O	5000		Grease fire in kitchen - S.D. alerted tenant.
10/08	FP1/55, Toronto			X		X			A	O	V	OP	500		Suspected arson - suite door set on fire.
11/08	OH- 4, Newmarket			X			X		A	K	S	O	-		Elderly woman's clothes caught fire at oven. She shut off
															main switch - no power to S.D. - hospitalized.
18/08	OH- 13, Kitchener	X	X			X			S	K	S	O	100		Cooking oil ignited - S.D. alerted sleeping tenants.
19/08	OH- 3, Waterloo			X		X			A	B	M	O	1600		Children playing with matches - ignited mattress.
22/08	OH- 15, Sudbury	X	X			X			A	BR	M	N	10000		Child playing with matches - ignited mattress.
22/08	OH- 10, Hamilton				X		X		S	BR	C	N	250		Tenant fell asleep while smoking - S.D. disconnected.
25/08	OH- 7, Ottawa			X		X			A	B	E	O	750		Spilled gasoline and ignited by gas furnace flames.

LEGEND

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Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

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Date	Place	SMOKE DETECTOR: May Have Saved Life	Saved Property	No Effect	Defective/Disconnected	Family	Seniors	Disability	OCCUPANCY: Occupant "S","A","O"	Origin	Cause	FIRE DETAILS: Response By	$ Damage	Facility	LEGEND
27/08	ON- 5, Smith Falls		X			X			A	BR	U	O	5000		Fire in bedroom closet.
31/08	ON- 80, Toronto		X			X			A	LR	WA	O	80		Extension cord undersized to air conditioner - circuit
															overfused.
12/09	ON-146, Toronto		X			X			O	BR	F	O	700		Using candle to locate items in closet.- left apartment.
17/09	ON- 5, Kitchener			X		X			A	K	S	O	200		Grease fire on stove - tenant responded immediately.
23/09	ON- 59, Ottawa		X			X			A	K	S	O	450		Grease fire - S.D. alerted tenants.
25/09	ON- 3, North Bay	X	X			X			S	LR	C	O	65		Tenant fell asleep after smoking cigarette - S.D. sounded.
25/09	ON- 4, Peterborough	X	X				X	X	S	K	S	N	-		Tenant deaf - grease fire - S.D. alerted neighbour.
28/09	ON- 1, Upsala				X	X			A	BR	M	O	2200		Power failure - children playing with matches.
28/09	ON- 84, Toronto			X		X			O	O	V	OP	10		Fire on balcony - cigarette dropped from above.
30/09	ON- 9, Ottawa				X	X			A	B	M	O	350		Child playing with matches - S.D. disconnected.
03/10	ON- 84, Toronto			X		X			A	BR	M	O	10000		Child playing with matches - ignited mattress.
05/10	ON- 84, Toronto			X		X			O	O	V	O	125		Fire on balcony - cigarette dropped from above.
10/10	ON- 14, Guelph	X	X			X			A	K	M	O	6000		3 yr. old playing with lighter - S.D. woke father.
14/10	ON-101, Thunder Bay	X	X			X			A	LR	M	O	4000		Children playing with matches - mother in tub.

LEGEND

Occupant:- "S",sleeping; "A",awake; "O",out

Origin :- "K",kitchen; "BR",bedroom; "B",basement; "LR",living-room; "O",other; "V",vacant unit

Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other

Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

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METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	Saved Property	No Effect	Defective/Disconnected	Family	OCCUPANCY: Seniors	Disability	Occupant "S","A","O"	Origin	Cause	Response By	$ Damage	Fatality	FIRE DETAILS
24/10	ON-107, Toronto	X	X			X			S	O	WA	O	6500		Suite fuse panel (alum.wire). 8 yr.old rescued by caretaker.
30/10	ON- 5, Pembroke		X			X			A	B	WA	O	135		Electrical malfunction in clothes dryer.
30/10	ON- 85, Toronto		X			X			O	LR	C	N	8000		Careless smoking - ignited chesterfield.
31/10	ON- 31, Toronto	X	X			X			A	BR	C	N	10000		Careless smoking - ignited mattress.
04/11	ON- 2, Cambridge			X			X		A	B	E	O	500		Flammable material too close to gas water heater.
05/11	ON- 59, Ottawa	X	X			X			S	BR	C	Q	550		Careless smoking - fell asleep - S.D. sounded.
07/11	ON- 5, Toronto		X			X			A	LR	WA	O	10000		Electrical malfunction of portable heater.
09/11	ON- 7, Ottawa			X		X			A	K	S	O	1200		Grease fire in kitchen - tenant on hand.
09/11	PP 7, Hamilton		X			X			A	BR	M	O	11000		Child playing with matches - ignited mattress.
10/11	ON- 5, Toronto	X	X			X			S	K	S	N	1600		Grease fire in kitchen-tenant asleep-S.D.alerted neighbour.
12/11	ON- 75, Toronto	X	X			X			S	LR	C	N	75		Tenant fell asleep while smoking-S.D. alerted neighbour.
23/11	ON-140, Toronto		X			X			O	LR	C	N	1000		Careless smoking - S.D. alerted neighbour.
27/11	ON- 9, North Bay			X		X			A	B	WA	O	3000		Aluminum wiring and defective breaker.
27/11	ON- 8, Sudbury	X	X			X			S	BR	C	O	75		Careless smoking - S.D. woke family.
28/11	ON- 82, Toronto				X	X			O	K	S	OP	180		Pot of food on stove boiled dry - S.D. disconnected.

LEGEND

Occupant:- "S",sleeping; "A",awake; "O",out
Origin :- "K",kitchen; "BR",bedroom; "B",basement; "LR",living-room; "O",other; "U",vacant unit
Cause:- "S",stove (cooking); "E",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other
Response By:- "O",occupant; "N",neighbour; "OP",other person; "NR",no response

FIRE INCIDENTS

METRO AND PROVINCE - DWELLING UNITS

YEAR : 1981

Date	Place	SMOKE DETECTOR: May Have Saved Life	SMOKE DETECTOR: Saved Property	SMOKE DETECTOR: No Effect	SMOKE DETECTOR: Defective/Disconnected	SMOKE DETECTOR: Family	SMOKE DETECTOR: Senior Disability	OCCUPANCY: Occupant "S","A","O"	OCCUPANCY: Origin	OCCUPANCY: Cause	OCCUPANCY: Response By	FIRE DETAILS: $ Damage	FIRE DETAILS: Fatality	LEGEND
04/12	OH- 18, London			X		X			A	B	U	0	1100		Possible spontaneous combustion.
06/12	OH- 1, Simcoe	X	X			X			S	K	S	0	2700		Grease fire - tenant fell asleep - S.D. alerted tenant.
15/12	OH- 54, Toronto	X	X				X		A	LR	NA	0	175		Improper electrical installation by tenant.
27/12	OH- 38, Toronto				X	X			A	K	S	0	-		Papers on stove ignited - S.D. disconnected.
28/12	OH- 71, Toronto	X	X			X			S	BR	NA	0	10000		Electrical malfunction in cord for freezer (circuit overfused).

Occupant :- "S",sleeping; "A",awake; "O",out
Origin :- "K",kitchen; "BR",bedroom; "B",basement; "LR",living-room; "O",other; "V",vacant unit
Cause :- "S",steve (cooking); "F",flammables; "C",cigarette (smoking); "M",children with matches or fire; "V",vandals/arson; "WA",wiring/appliance; "F",open flame/spark; "U",unknown; "O",other
Response By :- "O",occupent; "N",neighbour; "OP",other person; "NR",no response

SMOKE DETECTOR MAINTENANCE PROGRAM

All detectors are annually inventoried, cleaned, and functionally tested with smoke. A computer program reminds the field staff when maintenance is due, and records that the work is done.

Summary of 1981 Maintenance

Class of Detector (see below)

	A	1	2	3	4	5	6
Number of Detectors Serviced	6056	37822	6454	10875	13460	2703	2508
Number Defective	181	788	153	393	421	77	66
% Defective	3.0	2.1	2.4	3.6	3.1	2.8	2.6

Total detectors serviced - 79878
Number of detectors defective - 2079
Percentage of detectors defective - 2.6

Class of Detectors:

Type A is photo-electric.

Types 1 through 6 are dual chamber ionization detectors, 110V; - various makes available 1974-77.

Cost of Maintenance:

The reported cost of the annual maintenance check in 1981 was $2.11/detector when done by staff, or $2.40/detector if contracted out.

May, 1982.

Fire prevention